Safety Data Sheet



According to Regulation (EC) No 1907/2006 Revision Date: 03/20/2020 Version: 1.5 Date Printed:

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

	Due du et identifiens				
1.1	Product identifiers	. 10 M L hydrophlaria anid			
	Product Name	: 1.0 M Hydrochloric acid			
	Product Number	: HR2-581			
	REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.			
	CAS Number	: 7647-01-0			
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against				
	Identified uses	: Laboratory chemicals, Manufacture of substances.			
1.3	1.3 Details of the supplier of the Safety Data Sheet				
	Company	: Hampton Research			
		34 Journey			
		Aliso Viejo, CA 92656-3317			
		United States			
	Telephone	949 425 1321 Telephone technical support is available 8:00 a.m. to 4:30 p.m. USA Pacific Standard Time.			
	Fax	949 425 1611 Fax Technical Support is available 24 hours a day.			
	e-mail	tech@hrmail.com e-mail Technical Support is available 24 hours a day.			
1.4	.4 Emergency telephone number				
	Emergency phone	: 949 425 1321			
	For CHEMTREC Assistance	: 800 424 9300			
	For CHEMTREC Assistance	: 703 527 3887 (International)			
SECTION 2: Hazards Identification					
2.1	Classification of the substance or mixture				
	Classification according to	tegulation (EC) No 1272/2008			
	Corrosive to metals (Category 1), H290				

Skin corrosion (Category 1B), H314

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

	Classification according	to EU Directives 67/548/EEC or 1999/45/EC		
	C Corrosive	R34		
	Xi Irritant	R37		
	Label elements Labelling according Regulation (EC) No 1272/2008 [CLP]			
	Pictogram			
	Signal word	: Danger		
	Hazard statement(s)			
	H290	: May be corrosive to metals.		
	H314	: Causes severe skin burns and eye damage.		
	H335	: May cause respiratory irritation.		
	Precautionary statement(s)		
	P261	' : Avoid breathing vapours.		
	P280	: Wear protective gloves/ protective clothing/ eye protection/ face protection.		
	P301 + P310	 F SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. 		
	P305 + P351 + P338	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P310	: Immediately call a POISON CENTER or doctor/ physician.		
	Supplemental Hazard Statements	: none		
	According to European	Directive 67/548/EEC as amended.		
	Hazard symbol(s)	: C Corrosive		
	R-phrase(s)			
	R34	: Causes burns.		
	R37	: Irritating to respiratory system.		
	S-phrase(s)			
	S26	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
	S45	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).		

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Synonyms	: None
Formula	: HCI
Molecular Weight	: 36.46
CAS Number	: 7647-01-0
EC Number	: 231-595-7

RTECS	Merck	Beilstein	SARA	MDL #	PubChem Substance ID
MW4025000	14,4794	1098214	No	MFCD00011324	24888224

SECTION 3: Composition/Information on Ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration		
Hydrochloric acid				
CAS-No.7647-01-0EC-No.231-595-7Index-No.017-002-01-Registration number01-21194848	-	25 - 50 %		

Hazardous ingredients according to Directive 1999/45/EC

Component		Classification	Concentration
Hydrochloric acid			
CAS-No. EC-No. Index-No. Registration number	7647-01-0 231-595-7 017-002-01-X 01-2119484862-27-XXXX	C, R34 - R37	25 - 50 %

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes as a precaution and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

(CONTINUED) - SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

no data available

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
 Use personal protective equipment. Avoid breathing vapors, mist or gas.
 Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and Storage

7.1 Personal Precautions

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. For precautions see section 2.2. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

(CONTINUED) - SECTION 8: Exposure Controls/Personal Protection

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril[®] (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril[®] (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Clear Liquid	Color: Colorless	
b)	Odor	no data available		
c)	Odor Threshold	no data available		
d)	рН	8.5 at 25°C		
e)	Melting point/freezing point	no data available		
f)	Initial boiling point and boiling range	> 100°C (lit.)		
g)	Flash point	no data available		
h)	Evaporation rate	no data available		
i)	Flammability (solid, gas)	no data available		
j)	Upper/lower flammability or explosive limits	no data available		
k)	Vapor pressure	3.23 psi (21.1°C) 7.93 psi (37.7°C)		
I)	Vapor density	1.3 (vs air)		
m)	Relative density	no data available		
n)	Water solubility	no data available		
o)	Partition coefficient: noctanol/water	no data available		
p)	Autoignition temperature	no data available		
q)	Decomposition temperature	no data available		
r)	Viscosity	no data available		
s)	Explosive properties	no data available		
t)	Oxidizing properties	no data available		
Oth	er safety information			
Surface tension		no data available		
Relative vapour density		no data available		

SECTION 10: Stability and Reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions no data available

10.4 Conditions to avoid

no data available

9.2

(CONTINUED) - SECTION 10: Stability and Reactivity

10.5 Incompatible materials

Bases, Amines, Alkali metals, Metals, permanganates, e.g. potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide

10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - no data available

LC50 Inhalation - no data available

LD50 Dermal - no data available

Skin irritation / corrosion

Skin - rabbit Result: Causes burns.

Serious eye damage/eye irritation

Eyes - rabbit (Hydrochloric acid) Result: Corrosive to eyes

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. (Hydrochloric acid)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. (Hydrochloric acid)

Specific target organ toxicity - repeated exposure

no data available

(CONTINUED) - SECTION 11: Toxicological Information

Aspiration hazard

no data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information

RTECS: MW4025000

Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

SECTION 12: Ecological Information

12.1 Toxicity

Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h

- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- **12.4 Mobility in soil** no data available
- **12.5** Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

no data available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transportation Information

14.1 UN number

ADR/RID: 1789

IMDG: 1789

IATA: 1789

(CONTINUED) - SECTION 14: Transportation Information

14.2	UN proper sipping nameADR/RID:HYDROCHLORIC ACIDIMDG:HYDROCHLORIC ACIDIATA:Hydrochloric acid				
14.3	Transport ha	azard class(es)	IMDG: 8	IATA: 8	
14.4	Packaging (ADR/RID: II		IMDG: II	IATA: II	
14.5	Environmer ADR/RID: n		IMDG Marine pollutant: no	IATA: no	
14.6	Special pred	cautions for user			

no data available

SECTION 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006.

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- 15.2 Chemical Safety Assessment no data available

SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3.

H290May be corrosive to metals.H314Causes severe skin burns and eye damage.H335May cause respiratory irritation.Met. Corr.Corrosive to metalsSkin Corr.Skin corrosionSTOT SESpecific target organ toxicity - single exposure

Full text of R-phrases referred to under sections 2 and 3

- Corrosive
- R34 Causes burns.
- R37 Irritating to respiratory system.

DISCLAIMER

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For research use only. Not for drug, household, or other use.

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